

Thursday, 3/2/2006 3:08:00 PM

Kim Johnston **Process Sheet** : BRACKET ASSEMBLY : CU-DAR001 Dart Helicopters Services **Drawing Name** Customer Job Number : 26037 : 10278 **Estimate Number** : NIA : D3121141 Part Number P.O. Number S.O. No. : NIA : D3121 REV C2 **Drawing Number** : 3/2/2006 This Issue : N/A **Project Number** Prsht Rev. . N/A : MACHINED PARTS **Drawing Revision** Type First Issue : 25557A Material **Previous Run** : 3/28/2006 Due Date Qty: 12 Um: Each Written By Checked & Approved By : Est Rev:Pick:A Comment **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: 17-4 SS Bar 1.0 Comment: Qty.: 0.5775 f(s)/Unit Total: Material: 17-4 SS Bar per AMS 5604/5643 (M17-4-B1.000x02.000) Identify for D3121-111 Batch: <u>M147</u>73 BAND SAW 2.0 BAND SAW Comment: BAND SAW Cut blanks: (1.000" x 2.000") 6.600" long 3.0 Comment: HAAS CNC VERTICAL MACHINING #1

1-Machine D3121-111 as per Folio FA361 and Dwg D3121Identify as D3121-111

2-Deburr

3-Scribe batch number

4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE



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W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
1										

Part No: _	PAR #:	Fault Category:	NCR: Yes (No) D	QA: DQA:	Date:
			QA: N/C Clos	sed: [Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval Chief Eng	Approval QC Inspector		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C				
06.03.16	3	- Part came out of vice Juling 2nd op. - Hole .030 out of tolerance oversized.	Dan	Scrapi replace	06.03.16	/	ansas			
		tolerance oversized.	50 74		08.00 =.	16-03-16		06-03.10		
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NOTE: Date & initial all entries

Thursday, 3/2/2006 3:08:00 PM Rate: Kim Johnston User: 👾 **Process Sheet** Drawing Name: BRACKET ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Part Number: D3121141 Job Number: 26037 Job Number: Description: Seq. #: Machine Or Operation: SECOND CHECK 5.0 Comment: SECOND CHECK උත 12 D312121 Bolt 6.0 1.0000 Each(s)/Unit Total: 12.0000 Each(s) Comment: Qty.: Pick: Description Batch **Qty Part Number** 06/05/16 Bolt <u>B25560</u> x8 1 D3121-21 7.0 D3121241 1.0000 Each(s)/Unit Total: 12.0000 Each(s) Comment: Qty.: Pick: Description Batch **Qty Part Number** B25297 1 D3121-241 Bearing Ass SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble D3121-141 as per Dwg D3121. INSPECT WORK TO CURRENT STEP 9.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 PACKAGING : 10.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: DOCUMENT CONTROL 11.0 DC Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

Form: rprocess

Page 2

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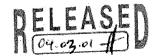
W/O:			WO	RK ORDER CHAN	IGES				
DATE STEP		PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		·							
	,								
Part No	:	PAR #:	Fault Categ	ory:	NCR: Ye	s No DQ	A:	Date: _	
	e e				QA	: N/C Close	d:	Date: _	
NCR:		\	NORK ORDE	R NON-CONFORM	MANCE (N	CR)			
DATE	CTED	Description of NC		 	ection B	Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	n Sig Da	n&∣ _{Sect}	ion C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries

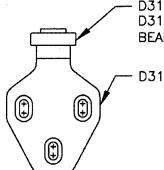




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DESIGN DRAWN BY		DRAWN BY	DART AEROS HAWKESBURY, ON	
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	#	At-	D3121	SHEET 1 OF 10
DATE		1	TITLE	SCALE
04.0	2.17		BRACKET ASSEMBLY	1:2
Α		02.04.15	NEW ISSUE	
В		03.01.16	ADD RIDGES; ADD MA ADD -141/-143/-1	T'L PROP; FIX P/N 44/-145/-146



DATE		I III.E. Some
04.0	02.17	BRACKET ASSEMBLY 1:2
Α	02.04.15	NEW ISSUE
В	03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146
С	04.02.17	ADD CLEARANCE; USE -241 BEARING
CI	PA 04.03.26	397 WAS 4.00; G.II WAS 6.14
CZ	JF-717 04.04.26	0.230 WAS 0.238



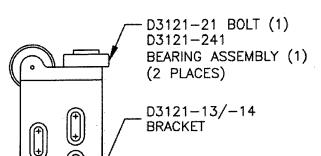
D3121-21 BOLT (1) D3121-241

BEARING ASSEMBLY (1)

D3121-11 BRACKET

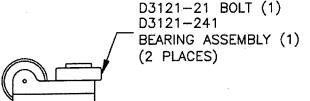
D3121-041 BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-33)



D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



D3121-15/-16 BRACKET

D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-35/-36)

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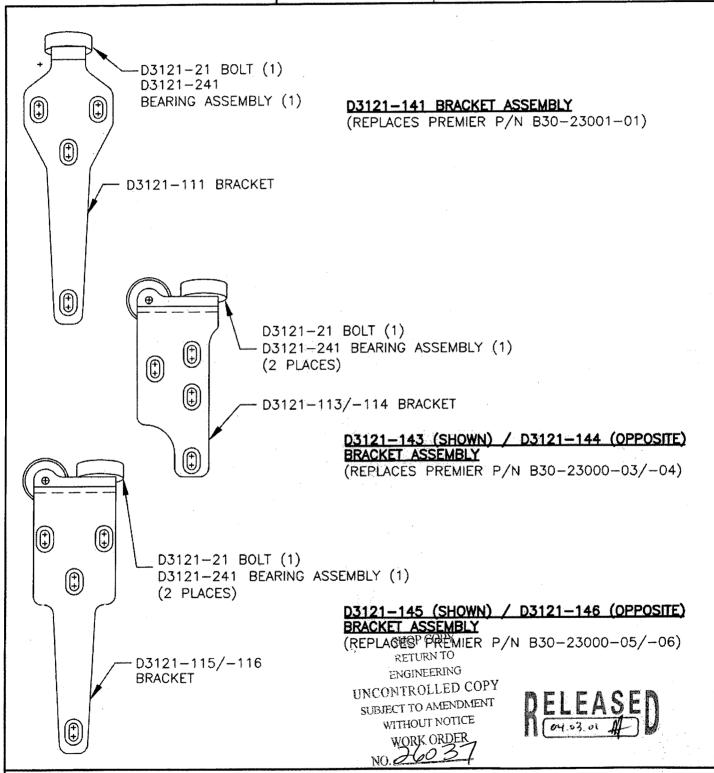
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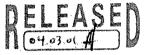


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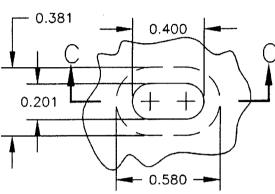


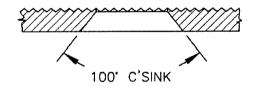


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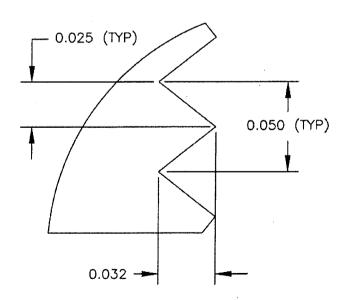
DETAIL A: SLOT DETAIL SCALE 2:1 VIEW ROTATED





SECTION

DETAIL B: RIDGE DETAIL PARTIAL SECTION SCALE 1:20

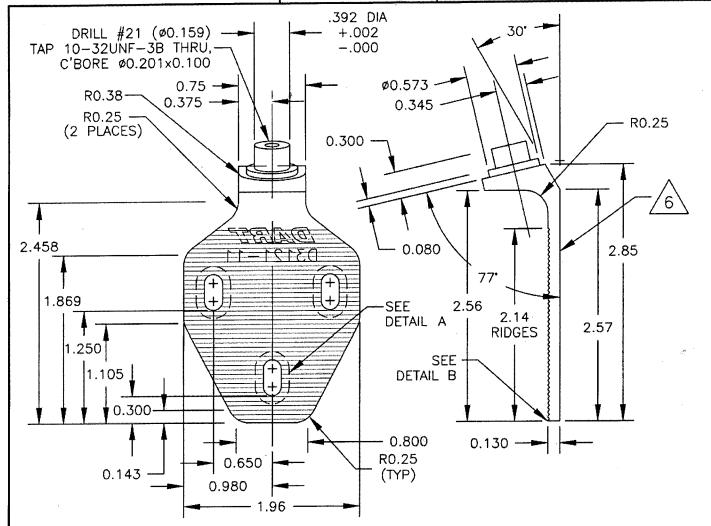


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D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

ALL DIMENSIONS ARE IN INCHES

BREAK ALL SHARP EDGES 0.005 TO 0.015

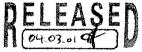
5) ENGRAVE DART P/N & LOGO AS SHOWN
6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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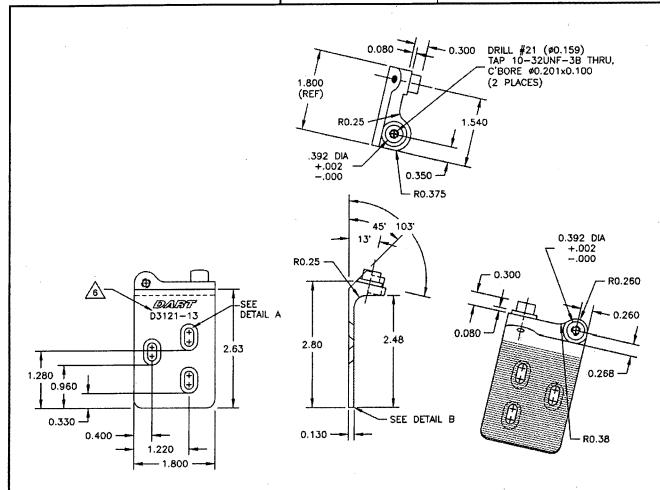








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	04.02.18		BRACKET ASSEMBLY	1:2



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WORK ORDER NO. 605

D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE STRENGTH = 150 ksi
MIN YIELD TENSILE STRENGTH = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

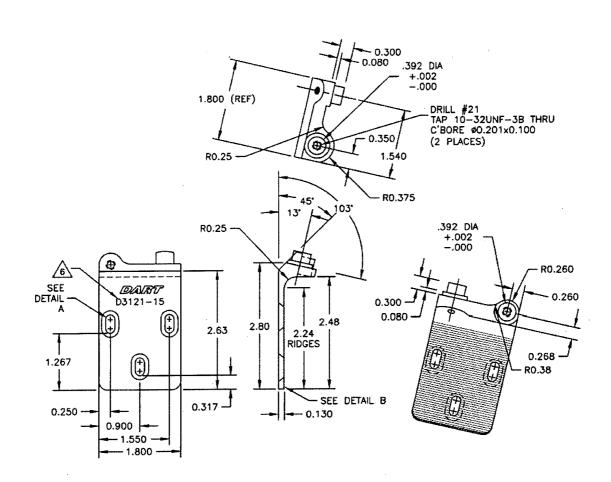


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	04.02.18		BRACKET ASSEMBLY	1:2				



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D3121-15 BRACKET (SHOWN)
D3121-16 BRACKET (OPPOSITE)

1) MATERIAL 17-4 SS PER AMS 5604/5643 (REE DART SPEC I

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE = 150 ksi
MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

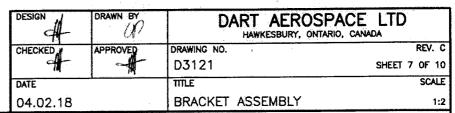
5) ENGRAVE DART P/N AND LOGO AS SHOWN
6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

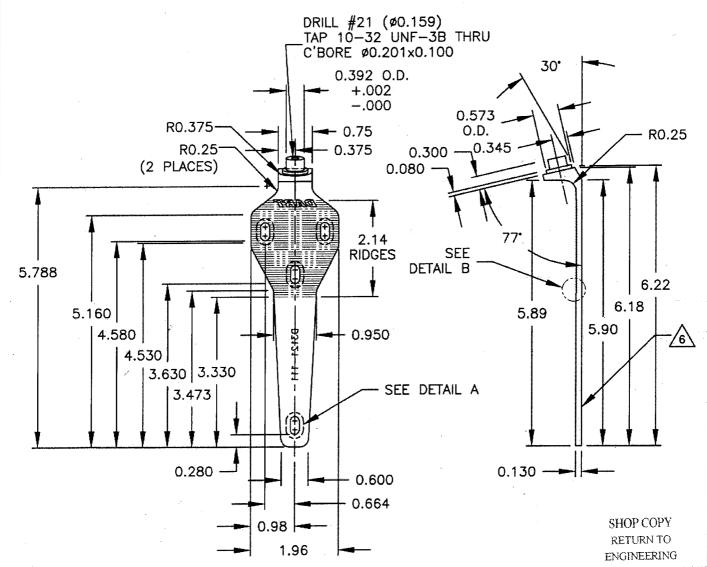
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D3121-111 BRACKET

1) REPLACES PREMIER P/N B32-23001-11

2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED

4) ALL DIMENSIONS ARE IN INCHES

5) BREAK ALL SHARP EDGES 0.005 TO 0.015

6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN

7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

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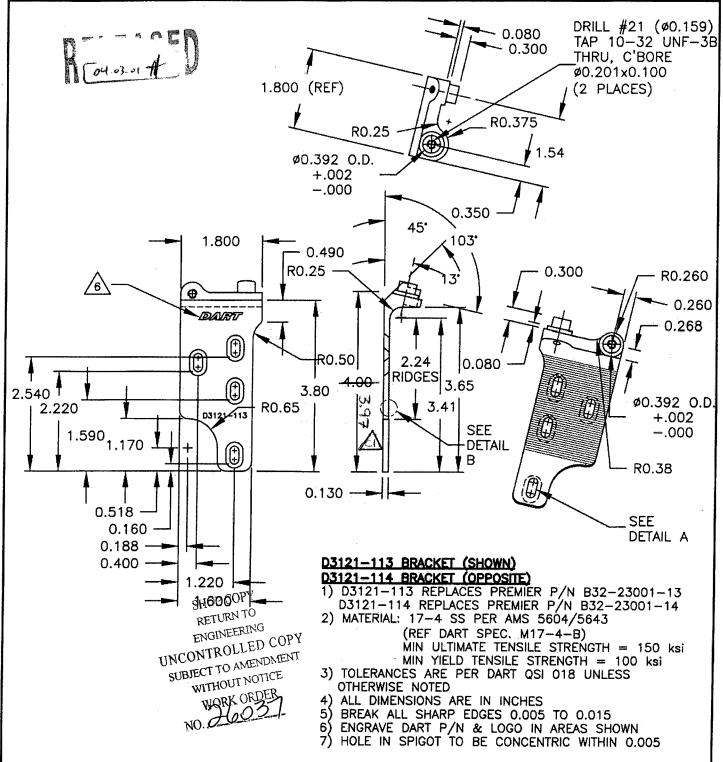


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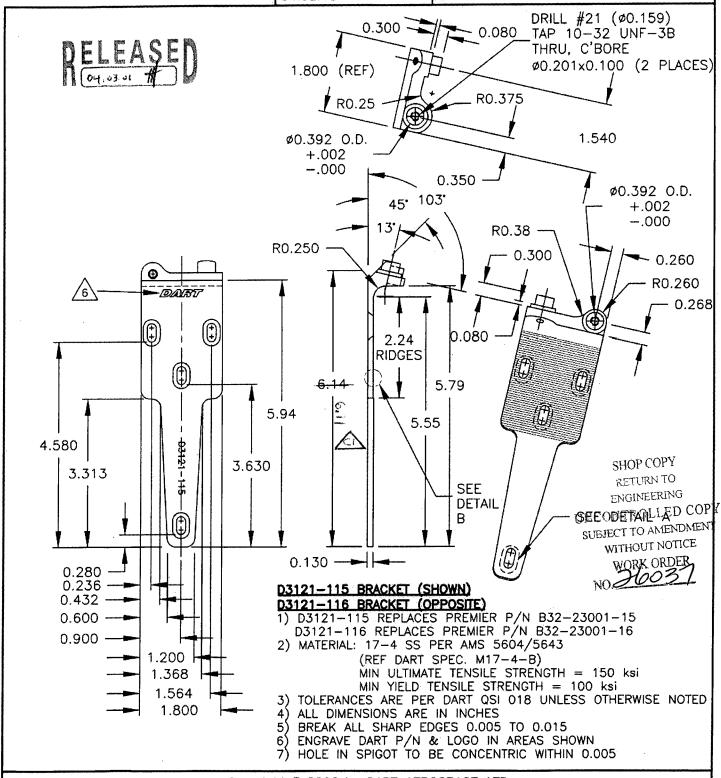


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04.02.18		BRACKET ASSEMBLY	1:2	

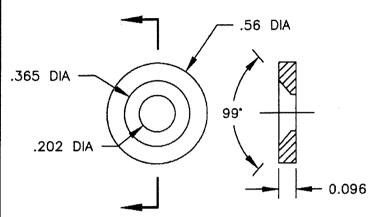


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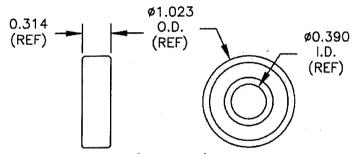
D3121-17 WASHER (SCALE 2:1)

1) REPLACES PREMIER P/N B32-23001-17
2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)

3) TOLERANCÈS ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

ALL DIMENSIONS ARE IN INCHES

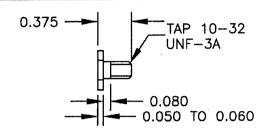
5) BREAK ALL SHARP EDGES 0.005 TO 0.015



D3121-19 BEARING (SCALE 1:1)

1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM 1) MATERIAL: DELRIN ROD, Ø1.25 FAFNIR P/N 9100KDD

2) ALL DIMENSIONS ARE IN INCHES



D3121-21 BOLT (SCALE 1:1)

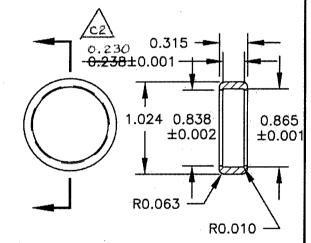
1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)

NONE FINISH:

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

ALL DIMENSIONS ARE IN INCHES

5) BREAK ALL SHARP EDGES 0.005 TO 0.015

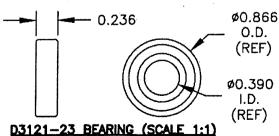


D3121-25 CAP (SCALE 1:1)

(REF DART SPEC. M-DELRIN-R1.250)

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

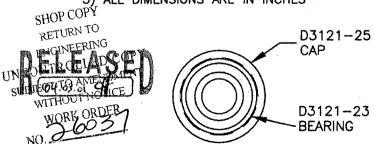
ALL DIMENSIONS ARE IN INCHES



1) POSSIBLE SUPPLIER: SKF P/N 61900-2Z

OR KML P/N 6900-ZZ

2) ALL DIMENSIONS ARE IN INCHES



D3121-241 BEARING ASSEBLY (SCALE 1:1)

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DART AEROSPACE LTD	Work Order:	26037	
,			
Description: Bracket	Part Number:	D3121-111	
Inspection Dwg: D3121 Rev: C2		Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing Dimension	Tolerance	Actual	Accept	Reject	Method of Inspection	Comments
		Dimension			mspection	
Ø0.392	+0.002/-0.000	0.392				
0.75	+/-0.030	.750				
0.375	+/-0.010	, 343	//			
2.14	+/-0.030	2.135				
0.950	+/-0.010	.752				
2000	+/-0.010					~~~
1.96	+/-0.030	1.962				
0.280	+/-0.010	.280		900		
3.330	+/-0.010	3.320				
3.630	+/-0.010	3.630				
R0.25	+/-0.030	R, 25	/			
R0.375	+/-0.010	R. 376				
Ø0.201	+0.005/-0.000	0.201				1
0.100	+/-0.010	.100				
6.18	+/-0.030	6.185				
5.89	+/-0.030	3.854	-			
0.080	+/-0.010	.079	-/-			
0.300	+/-0.010	.303				
30°	+/-0.1°	30°				
R0.25	+/-0.030	R.25				
0.130	+/-0.010	128			· · · · · · · · · · · · · · · · · · ·	
A A A A A A A A A A A A A A A A A A A			-			
0.381	+/-0.010	787				,
0.261	+/-0.010	-203				,
0.400	+/-0.010	.403			 	
0.580	+/-0.010	,575				
		,,,,				
100°	+/-0.1°	/00°				
0.32	+/-0.010					

Measured by: SD	Audited by: 💭	Prototype Approval:	N/A
Date: 06.03.16	Date: 66/05/10	Date:	N/A

Rev	Date	Change		Revised by	Approved,
Α	04.01.12	New Issue	P/O D3121-141	KJ/RF	- //
В	04.05.05	Dimensions ch	anged/re-arranged per Dwg revision	KJ/JLM <	7.11
					7777

